



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
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[www.msdlouky.org](http://www.msdlouky.org)

November 26, 2012

Ms. Donna Seadler  
Remedial Project Manager  
Kentucky/Tennessee Section U.S.  
U.S. Environmental Protection Agency Region IV  
61 Forsyth Street  
Atlanta, GA 30303

**Re: Result of Air Quality Monitoring - FY 13, First Quarter (FY13-1Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on  
Consent, USEPA Docket No-91-32-C**

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.2, Air Quality Monitoring, attached for your information and files is one photocopy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Suite 100, Morrisville, North Carolina 27560 and received by MSD on June 19, 2012.

1. URS Corporation letters dated November 14, 2012, 2 pages.
2. Figure 1, Lees' Lane Landfill, Sampling Locations, 1page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees' Lane Landfill, Sampling date: September 28, 2012, 1 page.
4. Table 2, On-Site Meteorological Data, Sampling date, September 28, 2012, 1 page.
5. Table 3, TO-15 Data Summary for Gas Monitoring Well Samples at the Lees' Lane Landfill, Sampling date: September 28, 1 page.



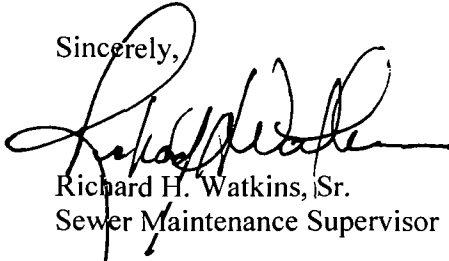
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Please advise if you have any questions concerning the attached information.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard H. Watkins, Sr.", written over the word "Sincerely,".

Richard H. Watkins, Sr.  
Sewer Maintenance Supervisor

RHW/rw  
Lees-13-1Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet  
Mr. Daniel Phelps, Division of Waste Management  
Tony Marconi, I&FP Preventive Maintenance & Support Manager  
Lee Lane File



41917229.01000

November 14, 2012

Mr. Rick Watkins  
Louisville Metropolitan Sewer District  
3050 Commerce Center Place  
Louisville, KY 40211

Dear Rick:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on September 28, 2012 (Sampling Event 52). Seven ambient samples, along with (G1, G2, G3, G4, G5R, G5L, GMW-1, GMW-2, GMW-3) well samples and a Field Blank were taken.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Methylene chloride, toluene, and xylenes were detected in small quantities (normal) in select ambient samples. Note: Those field samples where the primary analyte were measured below the laboratory and sample specific determined minimum detection limit (MDL), a less than (<) value is now indicated in Table 1 and 3 rather than a ND (not detected) designation as was the historical convention for this program.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; warm (68 ° F), with moderate, variable winds. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters positioned 3-5 feet above ground level, integrated over an approximate 7-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at STL in Austin. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications for all other analyses.

The reliability of this data set can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries, blank levels and the relatively few number of unresolved interfering peaks in the sample chromatograms. The September, 2012 field blank canister reported no positive hits above the MDL other than Methane and the surrogate recoveries. The reported results have not been blank corrected in attached tables per our standard project procedure. Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Prior to the field sample collection, Wells G-1,



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GMW-1, GMW-2 and GMW-3 were sampled with a GEM-200 analyzer to test for the presence of methane in the well. Methane was not detected in any of the wells or the vicinity of the well above background by the instrumentation. Vinyl chloride was detected in small quantities (close to the MDL) in wells G3 and G5R, while well G-1 had a vinyl chloride positive hit above the MDL. In addition well G-1 had low level positive hits for benzene, toluene, methylene chloride and xylene. Methane concentrations were consistent with historical data.

URS appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "Robert F. Jongleux".

Robert F. Jongleux  
Project Manager

Enclosure

cc: Chris Davis, URS/LOU  
Project File/Task 52

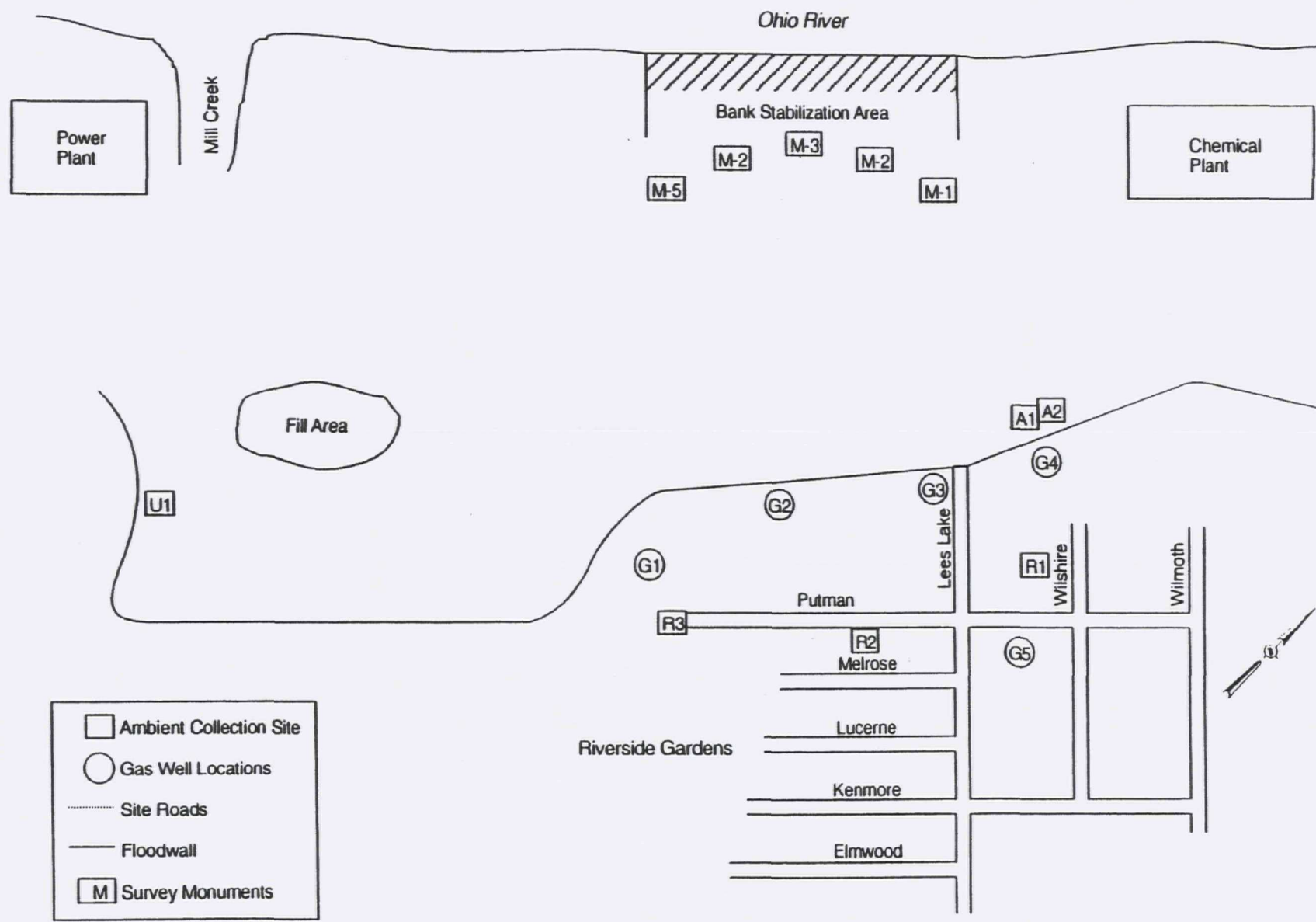


Figure 1. Lees Lane Landfill Sampling Locations





**TABLE 1**  
**TO-15 DATA SUMMARY FOR AMBIENT**  
**AIR SAMPLES AT THE LEE'S LANE LANDFILL**  
**SAMPLING DATE: 28 SEPTEMBER 2012**

Sample ID	Ambient Air Samples						
	A1	A2	U1	U2	R1	R2	R3
Canister ID	HL0933	RA2184	RA2331	RA2116	HL0808	RA2148	RA0921
Dilution Factor	2.4535	2.9782	3.3585	3.5359	2.2748	3.0453	3.0163
Location	ONSITE	ONSITE DUP.	LG&E	LEVEE	4423 WILSHIRE	PUTNAM LANE	PUTNAM END
Veriflow ID	A181861	A168513	A218997	FC023	A134120	A218796	A181856
Compound (ppbV)							
Benzene	0.14	0.098	<0.075	<0.079	0.139	<0.068	<0.068
Methylene chloride	0.096	0.072	0.165	0.066	0.093	0.075	0.066
Toluene	0.631	0.407	0.498	0.358	0.519	0.379	0.326
Vinyl chloride	<0.068	<0.083	<0.094	<0.099	<0.064	<0.085	<0.084
Xylene (Total)	0.083	<0.265	<0.299	<0.315	0.079	<0.271	<0.180
Methane (ppmV)	5.07	4.76	4.71	4.78	3.95	4.25	4.34

\* < less than the laboratory determined sample specific MDL for the analyte

**TABLE 2**  
**LOCAL METEOROLOGICAL DATA**  
**AMBIENT AIR SAMPLES**  
**SAMPLING DATE: 28 SEPTEMBER 2012**

Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
7:56 AM	30.06 in	66.0 °F	64.9 °F	NW	3.5 mph	Light Rain
8:56 AM	30.07 in	66.9 °F	64.9 °F	WNW	3.5 mph	Overcast
9:56 AM	30.08 in	68.0 °F	64.9 °F	Calm	Calm	Overcast
10:56 AM	30.09 in	68.0 °F	64.9 °F	Calm	Calm	Rain
11:56 AM	30.09 in	69.1 °F	66.0 °F	WSW	3.5 mph	Light Rain
12:56 PM	30.08 in	71.1 °F	66.0 °F	SW	3.5 mph	Haze
1:56 PM	30.06 in	73.0 °F	66.0 °F	SW	4.6 mph	Haze
2:56 PM	30.04 in	75.0 °F	64.0 °F	West	6.9 mph	Mostly Cloudy
3:56 PM	30.01 in	78.1 °F	64.0 °F	NW	6.9 mph	Mostly Cloudy
4:56 PM	30.01 in	73.0 °F	64.9 °F	North	6.9 mph	Light Rain
5:56 PM	30.01 in	73.0 °F	64.9 °F	NNE	5.8 mph	Mostly Cloudy

Source: National Weather Service, Louisville, Ky.



**TABLE 3**  
**TO-15 DATA SUMMARY FOR GAS MONITORING**  
**SAMPLING DATE: 28 SEPTEMBER 2012**

	Well Samples									BLANK #1
	G1	G2	G3	G4	G5-L	G5-R	GMW-1	GMW-2	GMW-3	
Canister ID	RA2029	RA2035	RA2028	UJ0992	RA2115	RA2219	RA2313	RA2140	5434	HL2112
Dilution Factor	4.368	4.3376	4.396	4.429	4.3074	4.2798	4.8386	4.368	4.4548	2
Orifice	RA2029	RA2034	RA2028	RA2031	RA2027	5412	HL029	FC023	RA2339	NA
Sampling Date	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Compound (ppbV)										
Benzene	0.96	<0.0486	<0.0492	<0.0496	<0.0482	<0.0479	0.122	0.0463	<0.0499	<0.0224
Methylene chloride	0.123	<0.065	<0.0659	<0.0664	<0.0646	<0.0642	0.0852	<0.0655	0.106	<0.03
Toluene	2.0	0.0698	0.135	0.0749	0.187	0.131	0.0692	0.0782	0.385	<0.0297
Vinyl chloride	4.9	<0.0605	<0.0613	<0.0618	0.0289	0.0586	<0.0675	<0.0609	<0.0621	<0.0279
Xylene (Total)	1.24	<0.193	<0.195	<0.197	<0.192	<0.191	<0.216	<0.195	<0.198	<0.089
Methane (ppmV)	10.8	1.56	2.24	2.3	2.08	1.53	1.7	1.83	2.04	0.58

ND = Non Detect < MDL and < Limit of Quantitation